

UNDERGRADUATE PROGRAMME IN DESIGN

PAPER-I - GENERAL ABILITY TEST

Time Allowed: 2 Hours
100

Max. Marks:

Total Questions: 100

This test comprises of the following sub-tests.

- (1) Quantitative Ability
- (2) Communication Ability
- (3) English Comprehension
- (4) Analytical Ability
- (5) Business Domain Test
- (6) Thematic Apperception Test
 - (i) Each question carries one mark.
 - (ii) Answers are required to be marked only on the OMR/ICR Answer-sheet, which will be provided separately.
 - (iii) For each question, four alternative answers have been provided out of which only one is correct. Darken the appropriate circle in the Answer-sheet by using Ball pen only on the best alternative amongst (a), (b), (c) or (d).

1. The ages of A and B differ by 16 years. If 6 years ago, the elder one be 3 times as old as the younger one, the age of 'A' is:
(a) 16 (b) 15 (c) 14 (d) 13
2. One litre of water is added to 5 litres of a 30% solution of alcohol in water. The strength of alcohol in the new solution will be:
(a) 25% (b) 18% (c) 24% (d) 20%
3. The price of a garment is reduced by 20% and further by 10%. Nidhi got another 5% discount for detecting a defective button. The total discount for the garment is:
(a) 35.2% (b) 34.1% (c) 32.5% (d) 31.6%
4. If A: B is 4:7 and B: C is 9:5 then A: B: C will be,
(a) 36:58:25 (b) 36:63:35 (c) 26:63:35 (d) 36:63:25
5. A train 400-m long crossed a platform 1000 m long in 1 minute 24 seconds. The speed of the train in km/hr is:
(a) 50 (b) 60 (c) 70 (d) None of these
6. The average weight of Ram, Lakhan and Pavan is 67 kg. If the average weight of Ram and Lakhan is 62 kg and that of Lakhan and Pavan is 68 kg, the weight of Lakhan in kg is:
(a) 60 (b) 62 (c) 58 (d) None of the above
7. The average of 8 numbers is 18. The average of 6 of these numbers is 15. The average of the remaining two numbers is:
(a) 30 (b) 20 (c) 27 (d) 24
8. If 30% of a length of fabric costs Rs.126, the total length of the fabric is:
(a) 420 (b) 380 (c) 360 (d) 400
9. Mr. Chopra is four times as old as his son. Five years ago, Mr. Chopra was nine times as old as his son was at that time. The present age of Mr. Chopra is:
(a) 36 (b) 32 (c) 40 (d) 28
10. If David's income is 33% more than that of John's, then how much percent is John's income less than that of David's?
(a) 24.8% (b) 32.3% (c) It cannot be determined (d) None of the above
11. The sum of the edges of a cube is equal to its volume. The surface area of the cube in sq. units is:
(a) 72 (b) 12 (c) 144 (d) 48
12. A number instead of multiplying, when divided by $\frac{8}{17}$, gave 225 more than the correct answer. The number is:
(a) 89 (b) 125 (c) 136 (d) 164
13. How many bullets can be made out of a lead cylinder 12 cm high and with base radius 5 cm, each bullet being 1.5 cm in radius?

- (a) 40 (b) 400 (c) 1038 (d) 533
14. If $\frac{x}{y} = \frac{4}{5}$, then value of $\left(\frac{5}{8} + \frac{y-x}{y+x}\right)$ is
 (a) $\frac{16}{69}$ (b) $\frac{58}{72}$ (c) $\frac{53}{72}$ (d) $\frac{49}{72}$
15. Ameesha drove car at 80 kmph and missed the flight by 5 min. If she drove at 100 kmph, she would have reached earlier by 10 min before the closing gates. How far is the airport from her house?
 (a) 80 km (b) 85 km (c) 90 km (d) 100 km

Direction (Q. Nos. 16-20): Fill in the blanks with the most appropriate word/phrase that best completes the sentence.

16. The conditions necessary ...this project have not been met.
 (a) of completion (b) for the complete of (c) of complete (d) for the completion of
17. I shall finish the work.... four days.
 (a) by (b) within (c) at (d) on
18. One difficulty... at night is limited vision.
 (a) with driving (b) be driven (c) do drive (d) will drive
19. You may wonder how the expert on fossil remains is able to trace the descent through teeth, which seem...pegs upon which the whole ancestry hangs.
 (a) reliable (b) inadequate (c) novel (d) spacious
20. My request was not complied ...
 (a) to (b) with (c) on (d) at

Direction (Q. Nos. 21-25): Each of the following sentences has been divided into 4 parts – a, b, c, d. One of them has an error. Choose the one with the error.

21. As soon as I arrived he suggested that / John and I should go ahead / get the tickets for the journey.
 (a) (b) (c)
 No error.
 (d)
22. Perhaps because the climate does not suit her / she has been quite seriously ill / since the day she has arrived. / No error.
 (a) (b)
 (c) (d)
23. She nursed her mother for many months, / sitting with her head in her lap / and pressing it all around the nights. / No error
 (a) (b)
 (c) (d)
24. One who do not value / savings is more / helpless than even / the poorest of the poor.
 (a) (b) (c) (d)
25. The city people stayed / fearlessly despite of / rumour of earthquake / in the area.
 (a) (b) (c) (d)

Direction (Q. Nos. 26-30): Choose the word/ phrase that are nearest to the meaning of the question followed by 4 choices.

26. ABASE
 (a) incur (b) tax (c) elope (d) humiliate
27. ABLUTION
 (a) washing (b) censure (c) forgiveness (d) mutiny
28. ACCLIVITY
 (a) sharp up-slope of a hill (b) index (c) report (d) character

29. BOISTEROUS
 (a) noisy (b) conflicting (c) noisy (d) grateful
30. BRACKISH
 (a) careful (b) salty (c) chosen (d) wet

Direction (Q. Nos. 31-35): Choose the word/ phrase that are opposite to the meaning of the question followed by 4 choices.

31. FIASCO
 (a) failure (b) cameo (c) mansion (d) success
32. FICKLE
 (a) faithless (b) unchangeable (c) disagree (d) stupid
33. LUST
 (a) desire (b) passion (c) lacking desire (d) sensuous
34. LUNATIC
 (a) fickle (b) insane (c) stupid (d) intelligent
35. HUBBUB
 (a) calm (b) fury (c) axle (d) waxy

Direction (Q. Nos. 36-40): Choose the word with correct spelling among the given choices.

36. (a) horrendous (b) horrendouz (c) horendouz (d) horendous
37. (a) incorrigible (b) incorigible (c) incorygible (d) incorygyble
38. (a) nauceous (b) nauseous (c) naseous (d) nausious
39. (a) thesaaurus (b) thesarus (c) thesaurus (d) thesaurous
40. (a) intersept (b) intercept (c) interscept (d) intresept

Direction (Q. Nos. 41-45): Read the passage given below and answer the questions that follows by choosing the correct option.

PASSAGE

Tolstoy's 'God Sees the Truth But Waits' brings out the moral that it is God who alone sees the Truth. It also tells us that 'Forgiveness' is the noblest virtue. Once, there lived a young merchant Aksenov in the town of Vladimar. One summer, Aksenov decided to go to the Nizhny fair to sell his goods. Though his wife requested him not to go he left for the fair. On his way, Aksenov met a merchant of Ryazan whom he knew well. They stayed in adjoining apartments at the same hotel for the night. The next-day, Aksenov set out before dawn.

Soon he was stopped on the way and arrested by the Police Commissioner. His luggage was searched and a blood-stained knife was found. Though Aksenov pleaded innocence he was imprisoned on the charge of murder. His wife, too, suspected him. Aksenov thought that God only knows the truth and to Him alone we must pray for help.

Aksenov lived as a convict for twenty six years. His hair turned white and his beard grew longer. He led a respectable life in the prison. His fellow-prisoners called him 'Grandfather' and 'The Saint'. One day, a fresh batch of convicts came to the prison. Among them, there was a strong man named Makir. Later, Aksenov understood that this man had killed the merchant of Ryazan.

A fortnight passed. Makir had dug a tunnel to escape from the prison. Aksenov noticed it. Then, the Governor came for interrogation. But Aksenov did not reveal the truth. That night, Makir came to Aksenov and fell at the feet of Aksenov. He had repented of what he had done a long back. He confessed his crime of murdering the merchant. He, even, confessed his crime to the authorities. Aksenov was found innocent. When the orders for his release came the innocent old man was already dead. God sees the truth but has waited in Aksenov's case. Thus the title of the story 'God Sees The Truth But Waits' is justified.

41. How was the truth about the murder revealed?
 (a) After the police commissioner searched the luggage
 (b) After Makir confessed before the authorities
 (c) Due to the death of Askenov (d) Due to prolonged investigation
42. Which one of the following is not conveyed in the passage?
 (a) God sees the truth (b) Forgiveness is always noblest
 (c) One has to wait for the truth (d) If you are in prison, then the truth can be revealed.
43. Why was Aksenov arrested?
 (a) on charges of murder (b) for staying in the hotel
 (c) for digging the tunnel (d) for stealing the merchant
44. How long did Aksenov stayed in the prison?
 (a) he became the saint (b) till he became the grandfather
 (c) for 26 years (d) for a fortnight only
45. In the first line of the passage, the message conveyed is:
 (a) God always sees the truth late (b) God waits eagerly to see the truth
 (c) God alone can see the truth (d) None of these

Direction (Q. Nos. 46-50): Read the passage given below and answer the questions that follow by choosing the correct option.

PASSAGE

Books are by far, the most lasting product of human effort. Temples crumble into ruin, pictures and statues decay, but books survive. Time does not destroy the great thoughts, which are as fresh today as when they first passed through their author's mind. These thoughts speak to us through the printed page. The only effect of time has been to throw out of currency the bad products. Nothing in literature, which is not good, can live for long. Good books have always helped man in various spheres of life. No wonder that the World keeps its books with great care.

46. Time does not destroy books because they contain:
 (a) useful material (b) subject matter for education (c) great ideas (d) high ideals
47. "to throw out of currency" means to
 (a) destroy (b) extinguish (c) forget (d) put
48. The World keeps its books with care because
 (a) they educate us (b) they bring great ideas to us
 (c) they help us in various spheres of life (d) they make us successful
49. Which of the following is not related to the given passage?
 (a) great thoughts are destroyed (b) temple crumbles into ruin
 (c) pictures and statues decay (d) books survive
50. "Most lasting product of human effort": the first line in the passage means:
 (a) books are the last products (b) human efforts are only in books
 (c) the effort of humans in the form of books live for long (d) none of these

Direction (Q. Nos. 51-55): Read the passage given below and answer the questions that follow by choosing the correct option.

On being invited, Voltaire visited Frederick and stayed in Berlin. In the beginning, they were cordial and praised each other. But in the later years, Voltaire found the hidden cruelty in Frederick. Frederick also saw the tiresome little monkey in Voltaire. Voltaire involved in a shady financial transaction. He quarrelled with another French man, drank too much chocolate and thus he gave more trouble to the King. At last, he left Berlin after a stay of two years.

But Frederick, who was cynical worked through his Gestapo and got Voltaire and his niece arrested. Voltaire was imprisoned and tormented. With the king's intervention, Voltaire was released. Voltaire, for all his faults, was a free-man but Frederick was a tyrant.

56. Which one of the following character does not suit Voltaire?
 (a) Cynic (b) tolerant (c) dynamic (d) truthful
57. What is the passage mainly telling us about?
 (a) Relationship between Frederick and Voltaire (b) Quarrell between Frederick and Voltaire
 (c) Contrasting characters of Frederick and Voltaire
 (d) Relationship between the King and Voltaire.
58. The one character in the passage that does not suit Frederick is:
 (a) cynical (b) belief in humanity (c) fraud in nature (d) cruel
59. Which of the incident in the passage did not occur
 (a) quarrell between Voltaire and a French man (b) imprisonment of Voltaire's niece
 (c) King's intervention in arresting Voltaire (d) None of the above
60. Which one of the four characters described in the passage were anti-nazi?
 (a) The King (b) The niece (c) Frenchman (d) Voltaire

Direction for questions 61 to 65:

Each problem contains a question and two statements, which give certain data. You have to select the correct answer from (a) to (d) depending on the sufficiency of the data given in the statements to answer the questions.

Mark (a): If statement A alone is sufficient to answer the question and statement B alone is not sufficient to answer the question.

Mark (b): If statement B alone is sufficient to answer the question and statement A alone is not sufficient to answer the question.

Mark (c): If statements A and B together are sufficient to answer the question but neither statement alone is sufficient.

Mark (d): If statements A and B together are not sufficient to answer the question and additional data specific to the problem are needed.

61. What is the length of the train?
 (A) The speed of the train is 36 km/ hr. (B) The train crosses an electric pole in 30 secs.
62. What is the value of x-y?
 (A) $x = y$ (B) $8x - y = 10$
63. What is the volume of the cylinder?
 (A) Base radius of the cylinder is 10 cm and height is 4 cm. (B) The cylinder is right circular
64. How many children are there in the family?
 (A) The no. of girls is twice that of the boys (B) The oldest child is a girl.
65. Mr. Rama Swamy sold a house. Find whether he got a loss or gain.
 (A) He sold the house for Rs. 10, 00,000/-
 (B) Cost price of the house was more than the selling price.

66. If English alphabets are written in reverse order, what is the letter after M?
 (a) N (b) L (c) J (d) O
67. If eye is called ear, ear is called nose, nose is called mouth and mouth is the cheek, then how would one smell something?
 (a) by ear (b) by cheek (c) by eye (d) by mouth
68. 'J' is the grandson of 'K'. 'N' who is the farther of 'K' has no sons. Is 'K' father of 'J'?
 (a) Yes (b) No (c) can't say (d) some more data is needed
69. The length of a rectangle is $\frac{3}{2}$ times its width, which is equal to 'a' cm. The area of the rectangle is,
 (a) $\frac{2}{3}a^2$ sq. m (b) $\frac{2}{3}a$ sq. cm (c) $\frac{3}{2}a^2$ sq. m (d) $\frac{3}{2}a$ sq. m
70. Fill in the blank:
- | | | | | |
|----|-----|---|------|-----|
| 49 | 216 | | 1024 | 729 |
| 7 | 6 | 5 | 4 | 3 |
- (a) 125 (b) 375 (c) 875 (d) 625
71. Find the similar relationship to the word WATCH: WATCHES ::
 (a) Finger: hand (b) cloth: clothes (c) lady: women (d) Wool: woollen

Direction: Based on the information given below answer Question Nos. 72-74.

Each problem contains a question and two statements, which give certain data. You have to select the correct answer from (a) to (d) depending on the sufficiency of the data given in the statements to answer the questions.

Mark (a) : If statement A alone is sufficient to answer the question and statement B alone is not sufficient to answer the question.

Mark (b) : If statement B alone is sufficient to answer the question and statement A alone is not sufficient to answer the question.

Mark (c) : If statements A and B together are sufficient to answer the question but neither statement alone is sufficient.

Mark (d) : If statements A and B together are not sufficient to answer the question and additional data specific to the problem are needed.

72. What is the cost of 8 pens and 4 pencils?
 (A) 2 pens and 4 pencils cost Rs. 20. (B) 2 pens and 1 pencil cost Rs. 15.
73. What is the present age of Ramesh?
 (A) Ramesh is the eldest sibling in the family (B) Ramesh's sister is 10 years old.
74. How is x related to Y?
 (A) Y is grand father of x (B) z is the wife of x
75. If the code for DURABLE is CTQZAKD then in the same way the code for ABILITY would be:

- (a) ZCHMHUX (b) BAJKJSZ (c) BCJMJUJZ (d) ZAHKHSX

Direction for Question Nos. 76-77. Find the odd-man out.

76. (a) Shimla (b) Manali (c) Darjeeling (d) Jaipur
 77. (a) 14 (b) 15 (c) 11 (d) 18
78. If CHAIR is called as TABLE, TABLE is called as SCOOTER, SCOOTER is called as FOOD and FOOD is called as WATCH, then what do we eat?
 (a) WATCH (b) CHAIR (c) FOOD (d) TABLE

Direction for Question Nos. 79-80. Answer the following questions using the interchange of sign given in the problems.

79. If - means +, + means -, x means ÷, ÷ means x, then what is the value of $24 \times 8 \div 6 - 3 + 3 \div 6$?
 (a) 9 (b) 0 (c) 8 (d) 7
80. If A means +, B means ÷, C means -, D means x, then what is the value of $8 A 112 B 36 C 24 D 10$?
 (a) 1 (b) 0 (c) 3 (d) 2

Direction (Question Nos. 81-82). Study the following table and answer the questions below:
 Year wise and discipline wise number of candidates selected in an Industry (in thousand)

Discipline \ Year	Year					
	1991	1992	1993	1994	1995	1996
Science	16	20	25	15	14	16
Maths	8	12	12	11	15	13
Arts	4	8	9	10	11	13
Commerce	1	3	3	3	1	2
Others	1	1	1	1	1	1
Total	30	44	50	40	42	45

81. The number of selected candidates of which discipline is increasing every year?
 (a) Arts (b) commerce (c) Science (d) Maths
82. In which year is the percentage of commerce discipline candidates the highest?
 (a) 1992 (b) 1993 (c) 1994 (d) 1996

Directions (Question Nos. 83 – 85): In the following questions there are four options given. Find the odd man out among them.

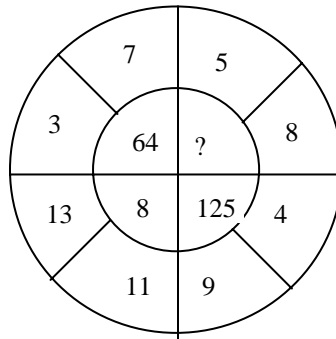
83. (a) Carrot (b) Cauliflower (c) Potato (d) Beetroot
 84. (a) 8 (b) 64 (c) 81 (d) 343
 85. (a) 19 (b) 17 (c) 23 (d) 27
86. The number of NIFT centers in India equals:
 (a) 6 (b) 7 (c) 5 (d) 8
87. Ikat is
 (a) type of yarn (b) type of fabric (c) colour (d) dyed fabric type
88. Cotton fabrics are preferred in summer because

- (a) It keeps the body cold available in India (b) it is abundantly available in India
 (c) it absorbs moisture and sweat from the body (d) None of these

89. Which is the part of elements of design?
 (a) Balance (b) Contrast (c) Texture (d) Harmony
90. How many colours are there as primary colours?
 (a) 4 (b) 3 (c) 5 (d) 2
91. Calico museum is located at
 (a) Ahmedabad (b) Mumbai (c) Vadodara (d) Gandhinagar
92. Gadwal is the name of a
 (a) Fiber (b) Cloth (c) Style of saree (d) Embroidery
93. Tick the odd one out
 (a) Hue (b) Form (c) Shape (d) Colour
94. Which one of the following does not belong to the group?
 (a) Aquamarine (b) Turquoise (c) Purple (d) Ink blue
95. Tick the odd one out
 (a) Aki Narula (b) Anshu Arora Sen (c) Sabyasachi (d) Anamika

Khurana

96. Bandhej is traditionally done in
 (a) West Bengal (b) Rajasthan (c) Maharashtra (d) Tamil Nadu
97. Which one is not a male garment?
 (a) Angrakha (b) Dhoti (c) Churidar (d) Dupatta
98. LIFW is organised by
 (a) FDCI (b) EPCH (c) CII (d) NIFT
99. Find the missing character
 (a) 27 (b) 216
 (c) 25 (d) 250



100. Find the odd one out.

